

## ABSTRACT

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5 The active optical filtering device, which is suitable in particular as a dazzle-  
protection device for utilization in welding protection masks, -helmets or -goggles, is  
equipped in an as such known manner with a light protection filter with at least one  
active optical filter element and with an electronic circuit for controlling the active  
filter element as well as with a light sensor operating in conjunction with the elec-  
tronic circuit and an electric power supply, in particular a solar cell, for the electronic  
circuit and the active filter element. The driving circuit for the active filter element is  
implemented in such a manner, that in the range of the framework frequency ( $1/T$ ) of  
10 0.01 to 1 Hz the load capacitor is briefly completely discharged, as a result of which  
the power demand is halved in comparison with known circuits. Simultaneously the  
operating voltage ( $U$ ) is situated within a range, which is quantitatively defined and  
within which the scattered light proportion of the liquid crystal display utilized is  
minimal as a result of this definition.

15 (Figure 3)